

# Air Permitting in Alaska

U.S. Department of Energy  
Distributed Energy Road Show

# Types of Air Permits

- Construction
  - Facility Specific (Case-by-Case)
  - Permit-By-Rule for Drilling Rigs
- Operating (Title V)
  - Facility Specific (Case-by-Case)
  - Permit-By-Rule for Volatile Organic Liquid Tanks
  - General Permits
- Owner Requested Limits (ORLs)
- Pre-Approved Limits (PALs)

# Air Construction Permits

- Required for Certain New Facilities:
  - Ambient Air Quality Facilities
  - Prevention of Significant Deterioration (PSD) Major Facilities
  - Hazardous Air Contaminant Major Facilities
  - Major Facilities In or Near a Nonattainment Area
  - Certain Port of Anchorage Facilities

# Air Construction Permits

- Ambient Air Quality Facility

- Industrial Process with a total rated capacity greater than 5 tons per hour and using an emission control unit
- Fuel Burning Equipment with a rated capacity greater than 50 MMBtu/hr and using an emission control unit
- Fuel Burning Equipment with a rated capacity greater than 100 MMBtu/hr
- One or more Incinerators with a total combined rated capacity of 1,000 lbs/hr or more
- Certain Coal Preparation Plants, Portland Cement Plants, Petroleum Refinery Units, and Wastewater Treatment Sludge Incinerators
- Certain units located in Sulfur Dioxide Special Protection Areas

# Air Construction Permits

- PSD Major Facility – Emissions greater than 100 tpy or 250 tpy for criteria air pollutants
- Hazardous Air Contaminant Facility – Emissions greater than 25 tpy for all hazardous air pollutants (HAPs) or 10 tpy for an individual HAP

# Air Construction Permits

- Required for Modifications at Existing Permitted Facilities
  - Increase in Actual Emissions Beyond Allowable Emissions
  - Major Modification
  - Cause the Facility to Become Major
  - Certain Modifications at Facilities In or Near a Nonattainment Area
  - Certain Increases in HAP Emissions
  - Certain Changes at the Port of Anchorage

# Air Construction Permits

- Permit Must Be Obtained Before Construction Begins
- Minor Permits Can Be Obtained in 4 to 6 Months
- Major Permits Can Be Obtained 1 to 3 Years
- Complex Application Requirements
- Public Comment Period Required
- Detailed Monitoring, Record Keeping, and Reporting Requirements
- \$2,000 to \$13,000 Application Fee Plus \$78 per Hour Processing Fee

# Air Operating Permits

- Required for Certain Facilities
  - Facility That Emits or Has the Potential to Emit 100 tpy or More of Any Regulated Pollutant
  - Facility That Emits or Has the Potential to Emit 25 tpy or More of All HAPs or 10 tpy of Any Single HAP
  - Facilities Subject to a New Source Performance Standard (NSPS) or a National Emission Standard for Hazardous Air Pollutants (NESHAP)
  - Certain Municipal Solid Waste Landfills
  - Certain Facilities for Which an Air Construction Permit Is Required



# Air Operating Permits

- General Permits Available for:
  - Diesel Electric Generating Plants
  - Asphalt Plants
  - Soil Remediation Units
  - Certain Boilers with a Maximum Heat Input Rating of Between 10 and 100 MMBtu/hr
  - Dry Cleaners
  - Volatile Organic Liquid Storage Tanks
  - Rock Crushers

# Air Operating Permits

- A Permit Modification Must Be Obtained for Certain Changes at a Facility
- A Permit Application Must be Submitted within 12 Months After the Facility Becomes Subject to the Permitting Requirement
- Complex Application Requirements
- Public Comment Period Required
- Detailed Monitoring Record Keeping, and Reporting Requirements
- \$4,000 Application Fee Plus \$78 per Hour Processing Fee

# Owner-Requested Limits (ORLs)

- ORLs Are Used to Avoid More Onerous Permits
- Public Comment Period Required
- Less Complex Application
- Simpler Monitoring, Record Keeping, and Reporting Requirements
- \$300 Application Fee

# Pre-Approved Limits (PALs)

- Available for:
  - Diesel-fired Engines (330,000 gal/yr limit)
  - Gasoline Distribution Facilities (19,900 gal/day limit)
- Requires Notification, Record Keeping, and Reporting
- \$100 Notification Fee